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Bozeman,
Montana

MONTANA WATER SUPPLY OUTLOOK

Snowpack and Streamflow Forecasts as of January 1, 1985

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
SNOW SURVEY UNIT
Federal Bldg., Rm. 443
10 East Babcock
Bozeman, MT 59715
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Snowpack much improved

Snowpacks with water content between 110 and 130 percent of average were measured in the headwaters of the Bitterroot, Big Hole and Beaverhead Rivers in southwestern Montana and in most of the central Montana mountain ranges.

In a reverse of conditions for the last 2 years, the snowpack in northwestern Montana is well above average for January 1.

With two exceptions, the rest of the state has near or above average snowpack. The exceptions are around Bozeman and Red Lodge.

By January 1, usually about 40 percent of the season's snowpack is on the ground. With considerable time left for snow to accumulate, conditions could change, but this represents a good start for the snow season.

Near average snowpacks with water content between 90 and 110 percent were recorded for the headwaters of the Clark Fork River in an area bounded by Butte, Hamilton, Missoula and Ovando. Another area with near average snowpack includes the headwaters for the Ruby and most of the Yellowstone and Madison Rivers east of the Continental Divide.

Most north-central and northwestern areas have a snowpack between 140 and 160 percent of average. Two other areas are also in this category: the headwaters for the Madison and Yellowstone Rivers in Yellowstone National Park and the mountains west of Helena.

Below average snowpack was recorded only for the mountains around Bozeman and Red Lodge. These two areas have water contents between 70 and 90 percent of average.

The Montana Water Supply Outlook is a publication of the U. S. Soil Conservation Service. The SCS administers the Cooperative Snow Survey Program in cooperation with other federal, state and private agencies, organizations, and individuals.

The report is prepared by SCS, Snow Survey and Water Supply Forecast Staff, Room 443, Federal Building, 10 East Babcock, Bozeman, Montana.

Most streamflows look good!

Based on current snowpack and climatic conditions, most drainages in the state are forecast to have spring and summer streamflows near to above average.

Runoff in the northwestern part of the state is expected to be well above average.

All other areas are expected to have average or above average runoff except for streams in the Gallatin River and Clark's Fork of the Yellowstone River drainages.

Most streams in the Kootenai, Flathead, Lower Clark Fork, and Bitterroot River Basins are forecast to produce runoff 10 to 25 percent above average. Spring and summer streamflows in the Upper Clark Fork, the east side of the Bitterroot, and the south side of the Blackfoot are expected to be in the near average to a little above average range.

Spring and summer streamflow is forecast to be above average in almost all Missouri River drainages. The only area where below average runoff is expected is in the Gallatin River drainage.

The Big Hole, Beaverhead and Madison Rivers in the Missouri River headwaters are predicted to have a little above average flows while the Ruby River is forecast near average. These headwater streams will combine to produce a little above average runoff into Canyon Ferry Reservoir.

Downstream tributaries flowing into the Missouri River are forecast to have above to well above average runoff.

Current snowpack and soil moisture conditions in the Yellowstone River Basin indicate spring and summer runoff should be a little above average in the Yellowstone River headwaters and near to a little below average streamflows from downstream tributaries.



NEW PHONE NUMBER

On January 28, 1985, the phone number of the Montana Snow Survey Office will change to:

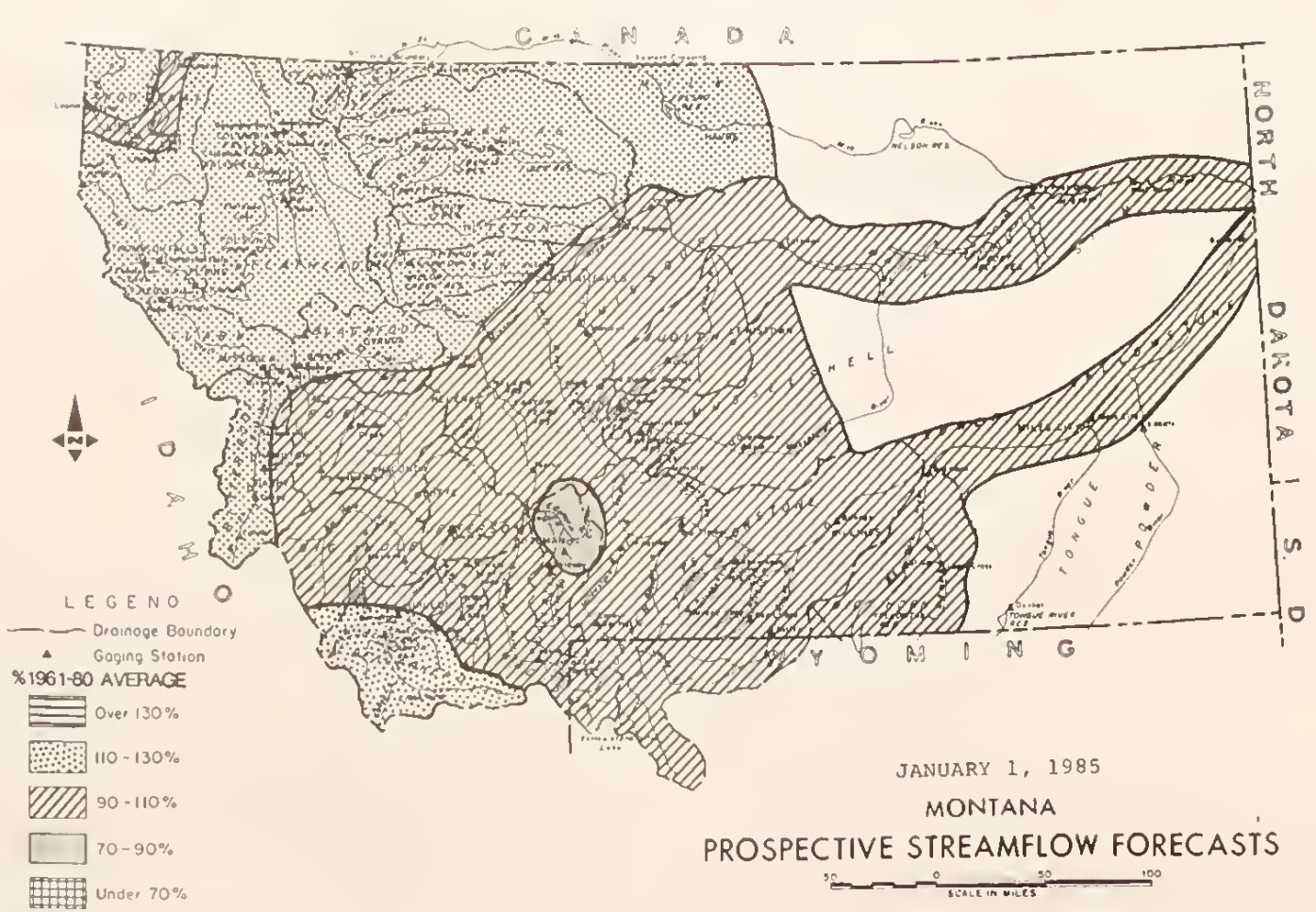
Commercial: 406-587-6843
FTS: 8-585-4843

Please note this change in your telephone directory.

Snow course map enclosed

Included with this issue of the Water Supply Outlook is an updated snow course map. Please keep this for future reference.

Extra copies are available from the Snow Survey Office.



Missouri River & Hudson Bay Drainages

STREAMFLOW FORECASTS

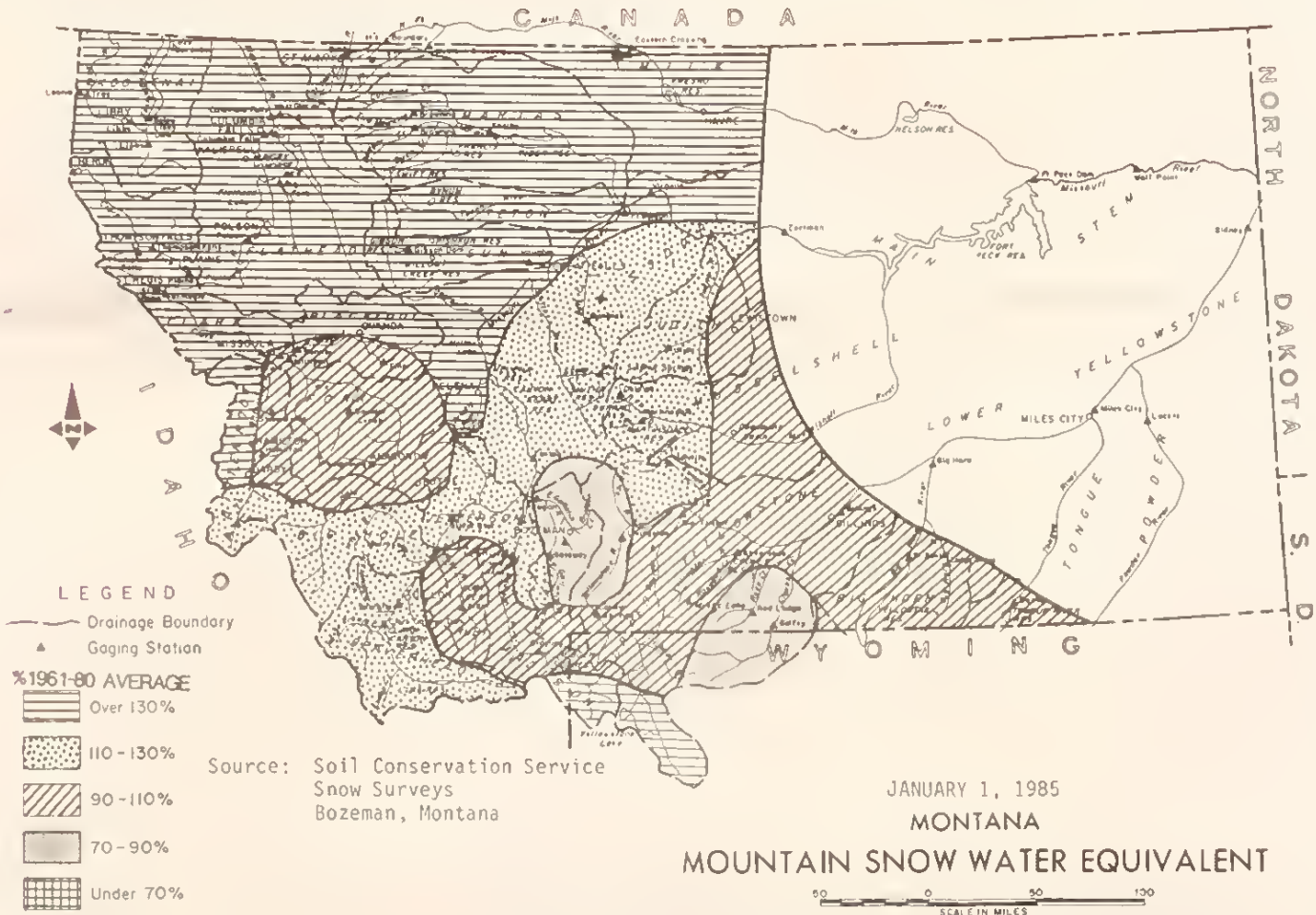
BASIN, STREAM and/or FORECAST POINT	THIS YEAR		PAST RECORD		THIS YEAR		PAST RECORD	
	FORECAST		THOUSAND ACRE FEET		FORECAST		THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average	Last Year	Average	Thousand Acre Feet	Percent of Average	Last Year	Average
PERIOD	APRIL - SEPTEMBER				APRIL - JULY			
REO ROCK RIVER near Monida (1)	120	117	244	103	115	119	212	96.3
BEAVERHEAD RIVER near Grant (2)	180	114	435	158	160	117	337	137
BEAVERHEAD RIVER at Barratts (2)	235	112		209	207	115		180
RUBY RIVER near Alder	100	99		101	85.0	100		84.6
BIG HOLE RIVER near Melrose	810	107		760	755	108		698
WILLOW CREEK near Harrison	20.8	104		20.0	18.7	105		17.8
MAOISON RIVER near Graveling (3)	545	110	575	496	430	111	440	388
MAOISON RIVER near McAllister (4)	930	110	1,114	848	750	112	874	672
GALLATIN RIVER near Gateway	490	90		545	420	91		464
SUM OF EAST+WEST FORKS HYALITE CR. nr Bozeman (5)	22.9	80		28.6	19.2	78		24.7
HYALITE CREEK near Bozeman (6)	36.7	82		44.8	31.5	81		38.7
GALLATIN RIVER at Logan	540	88		611	455	87		523
MISSOURI RIVER at Toston (7)	2,643	104	3,827	2,545	2,305	105	3,179	2,196
SHEEP CREEK near White Sulphur Springs	22.8	105		21.8	20.0	105		19.0
SUN RIVER at Gibson Dam (8)	750	132	336	570	680	130	296	522
BELT CREEK near Monarch	148	110		134	135	110		123
MISSOURI RIVER at Fort Benton (9)	4,122	104		3,980	3,600	104		3,468
TWO MEDICINE CREEK near Browning (10)	300	120		248	280	119		235
BAOGER CREEK near Browning	156	120		130	134	119		113
INFLOW SHIFT RESERVOIR near Dupuyer	102	118		86.7	89.5	120		74.7
CUT BANK CREEK at Cut Bank	142	125		114	133	123		108
MARIAS RIVER near Shelby	705	130		542	665	128		518
MISSOURI RIVER at Virgelle (11)	4,754	104		4,570	4,160	103		4,030
MISSOURI RIVER near Landusky (11)	5,293	106		4,980	4,650	106		4,383
NORTH FORK MUSSELSHELL RIVER near Delpine	7.0	109		6.4	6.0	111		5.4
SOUTH FORK MUSSELSHELL RIVER above Martinsdale	67.5	107		62.8	65.0	110		58.9
MISSOURI RIVER below Fort Peck Dam (11)	5,239	106		4,961	4,700	106		4,428
MILK RIVER at Eastern Crossing (Mar-Sept.)	143	131		109				
MILK RIVER at Eastern Crossing (12) (Mar-Sept.)	290	104		279				
INFLOW LAKE SAKAKAWA, NO (11)	13,265	104		12,755	12,750	104		12,239

- (1) Adjusted for storage in Lima Reservoir.
(2) Adjusted for storage in Lima and Clark Canyon Reservoirs.
(3) Adjusted for storage in Hebgen Lake.
(4) Adjusted for storage in Hebgen Lake and Ennis Lake.
(5) Sum of West Fork Hyalite Creek and East Fork Hyalite Creek above the Reservoir.
(6) Adjusted for storage in Middle Creek Reservoir.
(7) Adjusted for storage in Lima, Hebgen, Ennis & Clark Canyon Reservoirs.
(8) Adjusted for storage in Gibson Reservoir & diversions.
(9) Adjusted for storage in Lima, Clark Canyon, Hebgen, Ennis, Gibson, Pishkun, Willow Creek & Canyon Ferry Reservoirs.
(10) Adjusted for storage in Two Medicine Reservoir & diversions in Two Medicine Canal.
(11) Adjusted for all upstream reservoirs.
(12) Flow at Eastern Crossing minus St. Mary's Canal.
(13) Adjusted for storage in Lake Sherburne.

ALL FORECASTS PREPARED IN COOPERATION WITH THE NATIONAL WEATHER SERVICE

SASKATCHEWAN RIVER BASIN

SWIFTCURRENT CREEK at Sherburne (13)	160	123	102	128	140	125	87.4	112
ST. MARY'S RIVER near Babb (13)	605	124		487	530	127		416



SUMMARY of SNOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Counters Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average
Beaverhead	14	102	128
Ruby	4	84	104
Big Hole	15	138	125
Boulder	12	174	120
Jefferson	45	121	123
Madison	21	107	122
Gallatin	17	90	92
Missouri Headwater	83	109	115
West-side Missouri (Toston-Cascade)	9	171	124
Smith-Belt-Arrow	7	124	114
Missouri Main-stem	16	142	119
Teton & Sun	5	280	161
Marias	5	298	154
Marias-Teton-Sun	10	292	156
Judith-Musselshell	10	127	115
Milk	10	265	172
Bear Paws	6	194	200
Missouri (Total)	129	131	123

Saskatchewan			
St. Mary's	5	271	156
Boz River in Alberta	0	--	--

SUMMARY of SNOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Counters Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average
Upper Yellowstone			
ab Livingston	11	115	110
Shields	6	87	90
Boulder & Stillwater	3	107	97
Rock Creek & Clark's Fork	11	100	91
Yellowstone (ab Bighorn River)	31	104	99
Bighorn/Wyoming	6	98	95
Little Bighorn	1	92	97
Bighorn (Total)	7	96	96
Tongue	1	42	98
Powder	0	--	--
Yellowstone (Total)	39	100	98

Yellowstone River Drainage

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR		PAST RECORD		THIS YEAR		PAST RECORD	
	FORECAST		THOUSAND ACRE FEET		FORECAST		THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average	Last Year	Average	Thousand Acre Feet	Percent of Average	Last Year	Average
PERIOD	APRIL - SEPTEMBER				APRIL - JULY			
YELLOWSTONE RIVER at Corwin Springs	2,230	110	1,997	2,027	1,890	112	1,622	1,686
YELLOWSTONE RIVER near Livingston	2,545	107		2,379	2,130	108		1,969
BOULDER RIVER at Big Timber	380	95		398	340	93		366
STILLWATER near Absarokee (1)	635	100		632	525	99		528
CLARKS FORK RIVER near Belfry	575	92		628	520	92		563
ROCK CREEK near Red Lodge	105	91		115	80.0	91		88.1
INFLOW COONEY RESERVOIR near Boyd (2)	52.6	87		60.5	43.4	88		49.5
YELLOWSTONE RIVER at Billings	4,694	105	4,262	4,516	4,050	106	3,594	3,833
BIGHORN RIVER near St. Xavier (3)	1,960	99	1,974	1,976	1,820	101	1,688	1,794
LITTLE BIGHORN RIVER near Hardin	169	93		182	150	93		162
TONGUE RIVER near Decker	250	93		269	230	94		244
YELLOWSTONE RIVER at Miles City (4)	6,970	103		6,787	6,145	104		5,906
POWDER RIVER at Moorhead	240	91		263	225	93		243
YELLOWSTONE RIVER near Sidney (5)	7,647	102		7,518	6,740	103		6,544

- (1) Adjusted for storage in Mystic Lake.
(2) Adjusted for storage in Cooney Reservoir.
(3) Adjusted for storage in Buffalo Bill, Boysen, Bull Lake, Pilot Butte and Bighorn Reservoirs.
(4) Adjusted for storage in Bull Lake, Buffalo Bill, Boysen, Pilot Butte, Bighorn and Tongue River Reservoirs.
(5) Adjusted for reservoirs shown in (4) and diversions into the Lower Yellowstone Canal.

ALL FORECASTS PREPARED IN COOPERATION WITH THE NATIONAL WEATHER SERVICE

SNOW SURVEY DATA

JANUARY 1985

SNOW COURSE	ELEVATION	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 1961-80
MONTANA						
ARCH FALLS	7350	12/26/84	21	4.3	5.3	5.7
ASHLEY DIVIDE	4820	12/28/84	28	5.8	2.2	3.3
ASHLEY LAKE	4000	12/28/84	22	3.6	1.6	2.7
BAOGER PASS	6900	1/07/85	87	25.0	9.5	20.8
BAOGER PASS PILLOW	6900	1/01/85	---	18.1	6.8	16.2
BANFIELD MOUNTAIN	5600	1/01/85	---	16.7E	5.2	11.1
BANFIELD MTN PILLOW	5600	1/01/85	---	13.0	5.2	8.5
BARKER LAKES	8250	1/04/85	31	8.1	--	--
BARKER LAKES PILLOW	8250	1/01/85	---	8.4	5.3	8.1
BASIN CREEK	7180	12/28/84	27	5.2	3.0	3.8
BASIN CREEK PILLOW	7180	1/01/85	---	4.6	2.0	2.7
BEAGLE SPRINGS PILL	8850	1/01/85	---	4.7	4.0	3.2
BEAR PAW SKI AREA	5200	1/02/85	22	6.6	1.8	3.2
BIG SKY	7700	1/02/85	32	8.3	8.7	6.8
BLACK BEAR	7950	12/27/84	70	21.6	19.0	16.3
BLACK BEAR PILLOW	7950	1/01/85	---	21.3	18.4	15.5
BLACK PINE	7100	12/28/84	24	5.5	3.6	4.9
BLACK PINE PILLOW	7100	1/01/85	---	5.6	4.2	6.0
BLOODY DICK PILLOW	7550	1/01/85	---	7.0	3.7	5.8
BLUE LAKE	5900	1/07/85	64	16.0	5.5	10.8
BOULDER MTN PILLOW	7950	1/01/85	---	11.3	10.8	9.8
BOX CANYON PILLOW	6700	1/01/85	---	4.9	3.4	3.9
BRIDGER BOWL	7250	12/27/84	34	10.0	11.8	11.6
BRIDGER BOWL PILLOW	7250	12/27/84	---	9.4	10.0	11.3
CALVERT CREEK	6430	12/28/84	26	5.4	4.2	--
CALVERT CREEK PILLOW	6430	1/01/85	---	5.0	3.5	4.6
CARROT BASIN	9000	12/28/84	56	13.5	17.6	16.2
CARROT BASIN PILLOW	9000	1/01/85	---	12.7	15.3	12.6
CASHE CREEK PILLOW	7800	1/01/85	---	4.6	3.8	2.7
CHESSMAN RESERVOIR	6200	12/27/84	13	2.6	1.5	1.5
CLOVER MEADOW PILLOW	8800	1/01/85	---	8.2	10.5	7.3
COLE CREEK	7850	12/31/84	25	5.6	7.0	9.0
COLE CREEK PILLOW	7850	1/01/85	---	4.9	6.6	7.4
COMBINATION	5600	12/28/84	12	2.1	1.9	2.4
COMBINATION PILLOW	5600	1/01/85	---	2.7	2.6	2.4
COPPER BOTTOM PILLOW	5200	1/01/85	---	8.6	5.6	5.8
COPPER CAMP PILLOW	6950	1/01/85	---	20.4	8.1	16.9
COYOTE HILL	4200	12/27/84	30	5.4	3.0	4.5
CRYSTAL LAKE PILLOW	6050	1/01/85	---	6.9	5.1	6.9
DAISY PEAK	7600	1/02/85	29	6.2	4.2	5.3
DALY CREEK PILLOW	5780	1/01/85	---	5.5	4.0	6.5
DARKHORSE LAKE PILL	8700	1/01/85	---	16.4	13.3	10.1
DEADMAN CREEK	6450	12/26/84	28	6.5	4.6	5.1
DEADMAN CREEK PILLOW	6450	1/01/85	---	6.4	4.3	5.2
DESERT MOUNTAIN	5600	1/01/85	---	12.8E	4.6	6.9
DEVILS SLIDE	8100	12/26/84	32	8.8	9.6	10.5
DISCOVERY BASIN	7050	12/28/84	22	4.9	3.4	4.7
DIVIDE PILLOW	7800	1/01/85	---	4.2	6.0	4.4
DIX HILL	6400	12/30/84	26	5.3	4.4	5.1

SNOW COURSE	ELEVATION	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 1961-80
DOUPUYER CREEK PILLOW	5750	1/01/85	---	6.2	--	--
EMERY CREEK	4350	1/01/85	---	13.0E	4.8	6.3
EMERY CREEK PILLOW	4350	1/01/85	---	11.9	4.9	6.9
FISH CREEK	8000	12/28/84	26	5.4	3.2	4.3
FISHER CREEK PILLOW	9100	1/01/85	---	17.6	16.0	16.1
FLATTOP MTN PILLOW	6300	1/01/85	---	30.9	13.7	21.6
FLEECER RIDGE	7500	12/27/84	28	4.4	4.0	4.8
FROHNER MEADOWS	6480	12/27/84	21	3.7	2.6	3.7
FROHNER MOWS PILLOW	6480	1/01/85	---	4.0	3.0	3.4
GARVER CREEK	4250	1/01/85	---	9.0E	3.8	5.6
GARVER CREEK PILLOW	4250	12/31/84	---	7.5	2.7	5.0
GIBBONS PASS	7100	12/24/84	51	11.9	8.9	9.4
GRAVE CREEK	4300	1/01/85	---	13.5E	5.2	7.7
GRAVE CRK PILLOW	4300	1/01/85	---	13.2	5.4	8.1
HANO CREEK	5030	12/31/84	41	8.5	4.0	5.6
HANO CREEK PILLOW	5030	1/01/85	---	8.5	3.4	7.0
HAWKINS LAKE	6450	1/01/85	---	22.5E	8.9	15.5
HAWKINS LAKE PILLOW	6450	1/01/85	---	19.0	7.6	13.6
HEART LAKE TRAIL	4800	1/02/85	69	19.0	8.6	8.5
HEBGEN DAM	6550	12/31/84	26	4.6	6.0	5.0
HELL ROARING DIVIDE	5770	12/26/84	66	16.8	10.0	14.1
HOLBROOK	4530	1/07/85	25	5.5	2.5	4.4
HOOD MEADOW	6600	12/26/84	17	3.6	4.6	5.3
HOODOOD BASIN	6050	1/02/85	118	37.0	18.1	20.1
HOODOOD BASIN PILLOW	6050	1/01/85	---	30.7	14.2	18.6
HOODOOD CREEK	5900	1/02/85	113	33.6	17.3	17.8
JOHNSON PARK	6450	1/02/85	19	3.8	3.5	3.3
KINGS HILL	7500	12/26/84	33	8.0	5.0	6.7
KIWANIS CAMP	3720	1/02/85	9	1.4	1.6	1.1
KRAFT CREEK PILLOW	4750	1/01/85	---	9.1	6.2	5.5
LAKEVIEW CANYON	6930	12/31/84	24	5.8	5.1	5.4
LAKEVIEW RIDGE	7400	12/31/84	23	5.6	5.1	4.8
LAKEVIEW RIDGE PILL	7400	1/01/85	---	6.0	6.8	5.1
LEMHI RIDGE	8100	12/27/84	24	5.4	5.0	--
LEMHI RIDGE PILLOW	8100	1/01/85	---	5.4	3.4	4.8
LICK CREEK	6860	12/26/84	19	3.7	3.6	4.2
LICK CREEK PILLOW	6860	1/01/85	---	3.9	3.9	3.9
LONE MOUNTAIN	8880	1/02/85	42	11.8	11.3	10.0
LOST HORSE	5940	1/03/85	67	18.3	9.6	13.3
LOWER TWIN PILLOW	7900	1/01/85	---	10.3	9.8	9.6
LUBRECHT FLUME	4680	12/28/84	19	2.4	2.0	2.8
LUBRECHT FLUME PILL	4680	1/01/85	---	3.1	2.9	2.1
LUBRECHT FOREST NO 3	5450	1/02/85	18	3.2	2.7	2.8
LUBRECHT FOREST NO 4	4650	1/02/85	10	1.6	1.7	1.7
LUBRECHT FOREST NO 6	4040	1/02/85	11	1.8	2.0	1.9
LUBRECHT HYDROPLOT	4200	12/28/84	19	2.0	2.2	3.0
MAOISON PLATEAU	7750	12/27/84	45	11.8	10.0	9.5
MAOISON PLT PILL	7750	12/27/84	---	11.8	10.0	10.0
MANY GLACIER	4900	1/06/85	59	15.4	4.9	9.8
MANY GLACIER PILLOW	4900	1/01/85	---	13.7	4.7	9.2
MARIAS PASS	5250	1/01/85	58	15.0	4.6	6.9
MAYNARD CREEK	6210	12/27/84	21	5.7	6.7	6.4
MAYNARD CREEK PILLOW	6210	12/27/84	---	3.8	5.1	5.5
MONUMENT PEAK PILLOW	8850	1/01/85	---	7.8	8.9	10.2
MOULTON RESERVOIR	6850	12/27/84	20	3.5	2.2	3.1
MOUNT LOCKHART	6400	1/02/85	57	14.2	5.4	9.0
MT LOCKHART PILLOW	6400	1/01/85	---	12.8	5.3	9.1
MULE CREEK PILLOW	8300	1/01/85	---	7.7	5.5	4.6

SNOW COURSE	ELEVATION	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 1961-80
NEVADA CREEK PILLOW	6480	1/01/85	---	8.5	4.3	4.1
NEZ PERCE CAMP	5650	12/28/84	34	7.4	5.5	--
NEZ PERCE CMP PILL	5650	1/01/85	---	7.9	5.9	6.4
NOISY BASIN	6040	1/01/85	---	29.4E	18.0	17.8
NOISY BASIN PILLOW	6040	1/01/85	---	26.1	17.2	15.9
NORTH FORK ELK CREEK	6250	1/02/85	32	7.3	4.5	5.4
N.FORK ELK CRK PILL	6250	1/01/85	---	6.9	4.1	4.7
NORTH FORK JOCKO	6330	12/27/84	71	20.2	19.0	19.3
NORTHEAST ENTRANCE	7350	12/31/84	21	4.0	4.3	4.0
N.E. ENTRANCE PILLOW	7350	1/01/85	---	4.6	3.8	4.4
OPHIR PARK	7150	12/30/84	35	8.0	5.6	7.5
PETERSON MEADOWS	7200	12/27/84	25	5.5	3.1	4.4
PETERSON MOW PILLOW	7200	12/27/84	---	5.3	3.6	4.8
PICKFOOT CRK PILLOW	6650	1/01/85	---	4.7	5.9	5.4
PIKE CREEK PILLOW	5930	1/01/85	---	19.0	6.7	12.5
PIPESTONE PASS	7200	12/27/84	15	2.8	1.0	2.3
PLACER BASIN PILLOW	8830	1/01/85	---	9.0	8.0	8.2
POORMAN CREEK	5100	1/01/85	---	31.4E	10.8	15.7
POORMAN CRK PILLOW	5100	1/02/85	---	27.0	10.3	12.4
PORCUPINE	6500	12/28/84	17	3.8	3.9	--
PORCUPINE PILLOW	6500	1/01/85	---	3.4	3.4	2.9
ROCKER PEAK	8000	12/27/84	30	6.8	3.7	6.9
ROCKER PEAK PILLOW	8000	1/01/85	---	7.4	3.4	6.9
ROCKY BOY	4700	1/02/85	15	4.8	1.5	1.9
ROCKY BOY PILLOW	4700	1/02/85	---	3.6	1.8	1.9
SADDLE MOUNTAIN	7940	12/24/84	52	12.2	9.5	10.7
SADDLE MTN PILLOW	7900	1/01/85	---	13.3	10.8	11.5
SHOWER FALLS	8100	12/26/84	31	8.5	10.2	11.1
SHOWER FALLS PILLOW	8100	1/01/85	---	9.0	11.1	10.8
SILVER RUN	6630	12/31/84	6	1.6	2.4	2.4
SILVER RUN PILLOW	6630	1/01/85	---	1.6	2.4	1.5
SKALKAH0 SUMMIT	7250	12/26/84	43	11.7	6.9	11.8
SKALKAH0 SUMMIT PILL	7260	1/01/85	---	12.2	7.4	12.3
SKYLARK TRAIL PILLOW	6200	1/01/85	---	17.8	10.1	10.0
SOUTH FORK SHIELDS	8100	12/28/84	34	9.5	12.2	--
S.F.K. SHIELDS PILLOW	8100	1/01/85	---	7.7	9.0	6.8
SPOTTED BEAR MTN.	7000	12/28/84	37	9.2	5.3	7.1
SPUR PARK	8100	12/26/84	40	10.6	8.2	9.6
SPUR PARK PILLOW	8100	1/01/85	---	12.2	9.2	10.4
STAHL PEAK	6030	1/01/85	---	28.5E	14.6	19.7
STAHL PEAK PILLOW	6030	1/01/85	---	23.3	12.6	17.2
STORM LAKE	7780	12/27/84	31	7.1	5.0	5.6
STUART MOUNTAIN	7400	12/31/84	65	17.8	15.2	13.2
SUCKER CREEK	3960	1/02/85	6	.6	1.8	.4
TAYLOR ROAD	4080	1/02/85	16	3.8	2.2	1.9
TEN MILE LOWER	6600	12/26/84	20	4.0	2.6	3.1
TEN MILE MIDDLE	6800	12/26/84	29	5.9	3.5	4.7
TEN MILE UPPER	8000	12/26/84	31	6.8	4.4	5.7
TEPEE CREEK PILLOW	8000	1/01/85	---	5.7	7.7	5.9
TRINKUS LAKE	6100	12/28/84	99	28.4	18.8	18.2
TRUMAN CREEK	4060	12/28/84	17	3.2	1.8	1.6
TV MOUNTAIN	6800	12/30/84	45	11.7	9.2	7.9
TWELVEHILE CREEK	5600	12/27/84	48	11.6	7.1	8.5
12 MILE CRK PILLOW	5600	1/01/85	---	9.7	6.6	7.3
TWENTY-ONE MILE	7150	1/01/85	39	8.7	6.8	7.7
TWIN CREEKS	3580	1/07/85	36	8.0	3.0	5.7
TWIN LAKES	6510	1/03/85	83	23.8	11.8	17.2
TWIN LAKES PILLOW	6400	1/01/85	---	21.9	13.8	17.2
UPPER HOLLAND LAKE	6200	12/30/84	83	21.6	13.8	15.4

SNOW COURSE	ELEVATION	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 1961-80
WALDRON	5600	1/02/85	33	7.4	2.8	3.9
WALORON PILLOW	5600	1/01/85	---	7.3	2.6	4.7
WARM SPRINGS	7800	12/31/84	34	7.8	7.4	10.6
WARM SPRINGS PILLOW	7800	1/01/85	---	8.1	8.6	11.6
WEASEL DIVIDE	5450	1/01/85	---	25.5E	9.9	16.9
WEST YELLOWSTONE	6700	1/01/85	36	7.7	5.8	5.0
W. YELLOWSTONE PILL	6700	1/01/85	---	6.0	6.0	4.3
WHISKEY CREEK	6800	12/27/84	43	12.0	9.0	7.1
WHISKEY CREEK PILLOW	6800	1/01/85	---	10.0	7.7	7.3
WHITE HILL PILLOW	8700	1/01/85	---	12.5	10.8	11.0
WILLOW CREEK	6500	12/31/84	15	2.9	4.1	3.8
WOOD CREEK PILLOW	5960	1/01/85	---	9.5	2.2	5.1

Columbia River Drainage

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR		PAST RECORD		THIS YEAR		PAST RECORD		THIS YEAR		PAST RECORD	
	FORECAST		THOUSAND ACRE FEET		FORECAST		THOUSAND ACRE FEET		FORECAST		THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average	Last Year	Average	Thousand Acre Feet	Percent of Average	Last Year	Average	Thousand Acre Feet	Percent of Average	Last Year	Average
PERIOD	APRIL - SEPTEMBER				APRIL - JULY				APRIL - JUNE			
KOOTENAI RIVER below Libby Dam (1)	7,460	106	5,466	7,041	6,380	106	4,520	6,020				
FISHER RIVER near Libby	340	129		264	325	131		248				
YAAK RIVER near Troy	680	130		523	660	132		500				
KOOTENAI RIVER at Leonia (1)	9,060	105	6,534	8,602	7,900	105	5,596	7,498	6,350	105	4,282	6,051
INFLOW MOULTON RESERVOIR nr Butte (Million Gallons)					290	110	182	263	265	112	179	237
WARM SPRINGS CREEK AT MEYERS DAM near Anaconda (2)	50.0	107		46.8	42.5	112		37.8				
FLINT CREEK near Southern Cross (3)	19.0	104	26.3	18.3	16.5	107	21.3	15.4				
FLINT CREEK below Boulder Creek (4)	78.7	104		75.8	63.0	106		59.5				
INFLOW LOWER WILLOW CREEK RESERVOIR near Hall (5)	16.2	103	11.6	15.7	15.4	103	10.2	14.9				
MIDDLE FORK ROCK CREEK near Philipsburg	84.0	107		78.2	76.5	109		70.5				
NEVADA CREEK near Finn	23.0	100		23.0	21.5	101		21.3				
BLACKFOOT RIVER near Bonner	1,130	113		999	1040	115		904	890	114		782
CLARK FORK RIVER above Milltown (6)	855	105		816	760	107		708	655	107		597
CLARK FORK RIVER above Missoula	1,985	109	1,565	1,815	1,775	110	1,360	1,612	1,500	109	880	1,379
WEST FORK BITTERROOT RIVER near Conner (7)	210	118		178	195	119		164				
BITTERROOT RIVER near Darby	695	120		580	600	122		532	575	124		464
SKALKAHO CREEK near Hamilton	61.8	110		56.0	55.0	113		48.7				
BURNT FORK CREEK near Stevensville (8)	40.4	108		37.4	35.5	110		32.2				
BITTERROOT RIVER at Missoula (9)	1,870	124		1,504	1,745	126		1,384	1,480	124		1,191
CLARK FORK RIVER below Missoula	3,855	116		3,319	3,515	117		2,996	2,980	116		2,570
CLARK FORK RIVER at St. Regis	5,150	117	3,732	4,411	4,650	117	3,322	3,928	4,010	117	2,825	3,428
NORTH FORK FLATHEAD RIVER near Columbia Falls	2,375	124		1,913	2,125	123		1,732	1,800	122		1,471
MIDDLE FORK FLATHEAD RIVER near West Glacier	2,400	128	1,316	1,869	2,225	130	1,236	1,713	1,850	127	1,086	1,453
SOUTH FORK FLATHEAD RIVER near Columbia Falls (10)	2,780	122	1,515	2,278	2,600	121	1,694	2,142	2,250	119	1,416	1,886
FLATHEAD RIVER at Columbia Falls (10)	7,750	125	4,738	6,208	7,150	125	4,294	5,721	6,200	126	3,589	4,921
SWAN RIVER near Big Fork	855	124		689	760	126		604				
FLATHEAD RIVER near Polson (11)	9,400	129	5,586	7,278	8,600	128	5,102	6,712	7,200	125	4,284	5,759
CLARK FORK RIVER near Plains (11)	14,700	121	9,695	12,153	13,400	121	8,914	11,071	11,450	121	7,457	9,459
THOMPSON RIVER near Thompson Falls	325	125		261	295	127		233				
PROSPECT CREEK at Thompson Falls	173	121		142	163	123		132				
CLARK FORK RIVER at Whitehorse Rapids (12)	16,100	119		13,575	14,600	118		12,351	12,470	118		10,570

- (1) Adjusted for storage in Lake Kootenai.
(2) Adjusted for storage in Silver Lake, diversions to and pumping from Georgetown Lake.
(3) Adjusted for storage in Georgetown Lake, diversions from and pumping to Silver Lake.
(4) Sum Flint Creek at Marville and Boulder Creek at Marville.
(5) Sum of North Fork Lower Willow Creek near Hall and South Fork Lower Willow Creek near Hall.
(6) Difference in observed flow Clark Fork above Missoula and Blackfoot near Bonner.

- (7) Adjusted for storage in Painted Rocks Reservoir.
(8) Adjusted for diversion into Sunset Highline Canal.
(9) Difference in observed flow Clark Fork above and below Missoula.
(10) Adjusted for storage in Hungry Horse Reservoir.
(11) Adjusted for storage in Hungry Horse Reservoir and Flathead Lake.
(12) Adjusted for storage in Hungry Horse Reservoir, Flathead Lake and Noxon Rapids Reservoir.

ALL FORECASTS PREPARED IN COOPERATION WITH THE NATIONAL WEATHER SERVICE

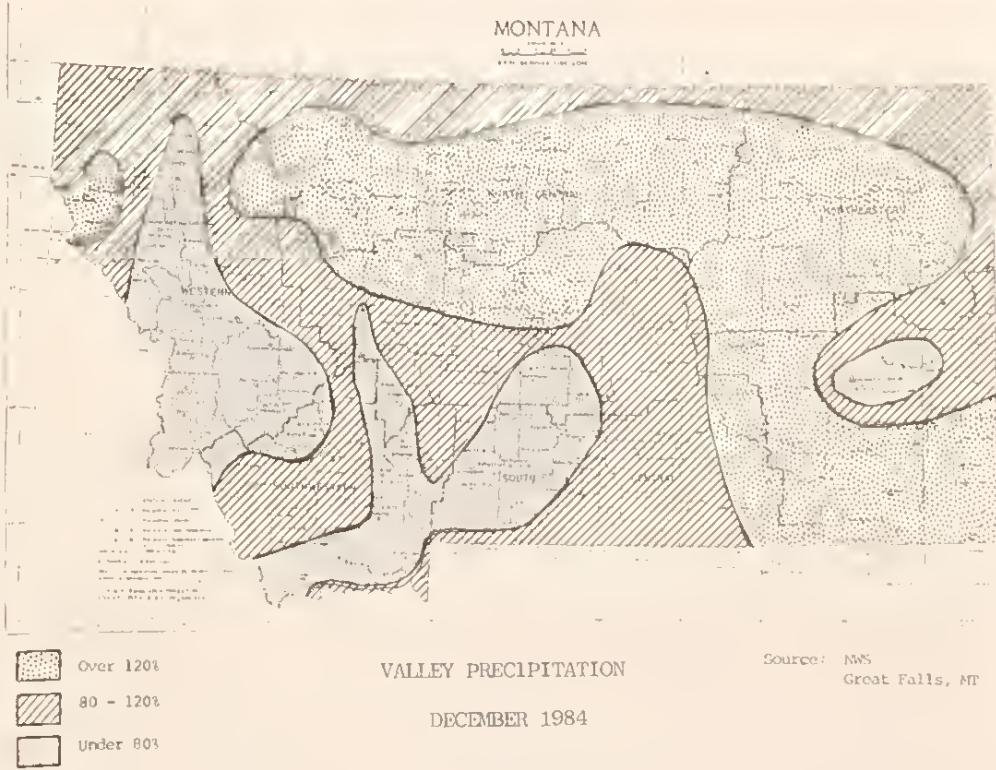
SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average
East Kootenay/BC.	0	--	--
Kootenai/Montana	15	244	157
Kootenai above Bonners Ferry...	15	244	157
Little Bitterroot	5	228	147
N. Fk. Flathead...	7	212	144
M. Fk. Flathead...	9	274	158
S. Fk. Flathead...	11	166	150
Swan	8	149	148
Flathead	39	192	150
Stillwater & Whitefish.....	3	194	127
Clark Fork above Blackfoot	32	151	110
Blackfoot	16	129	124
Upper Clark Fork above Missoula ..	48	142	115
Bitterroot	13	156	121
Lower Clark Fork below Missoula ..	11	208	180
Clark Fork (Total w/o Flathead)...	72	164	134
Pend O'Reille (Clark Fork & Flathead)	111	176	141
Columbia (Pend O'Reille & Kootenai)	126	185	144

RESERVOIR STORAGE (Thousand Acre Feet) END OF MONTH

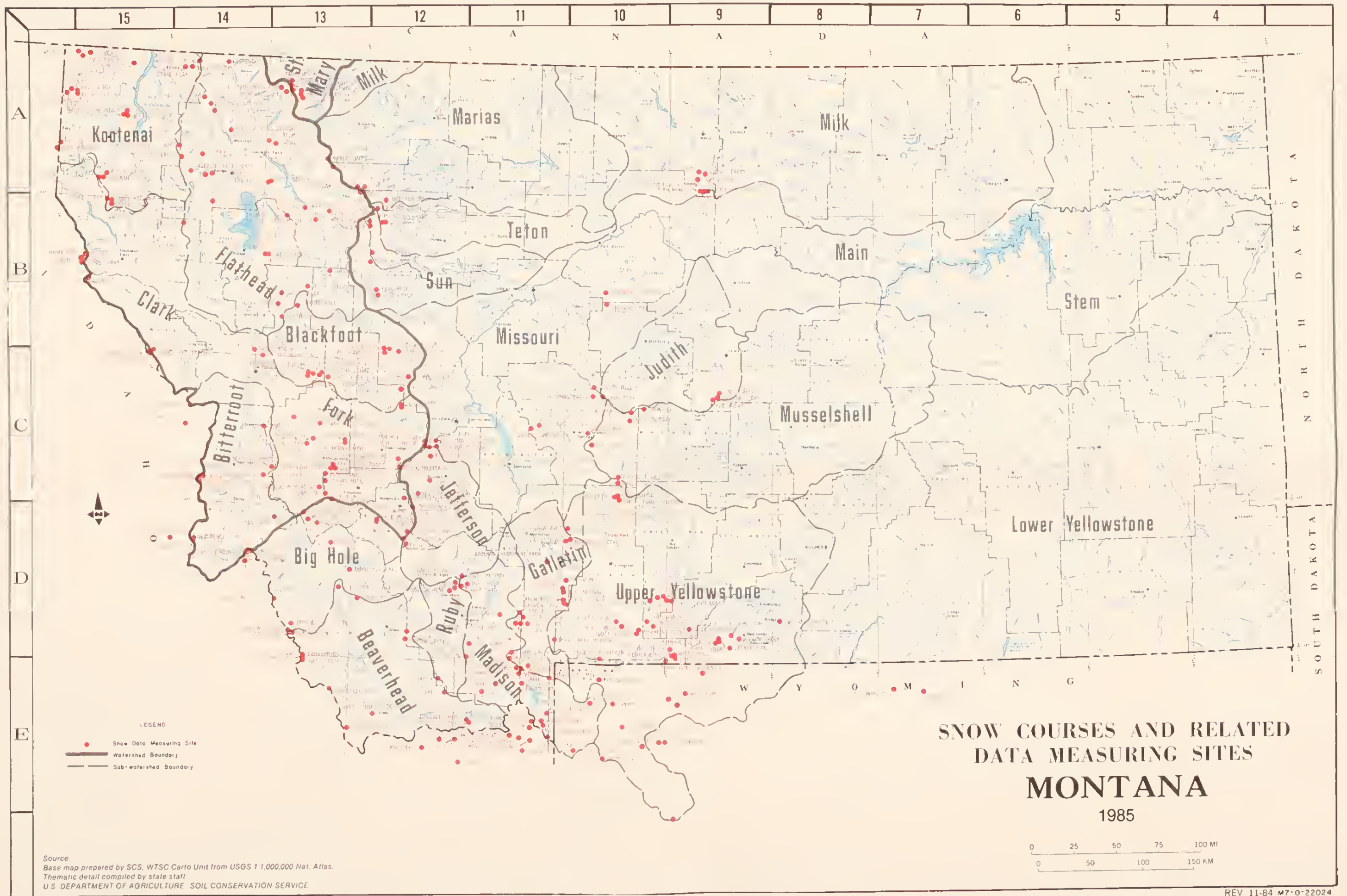
Basin or Stream	RESERVOIR	Usable Capacity	Usable Storage		
			This Year	Last Year	Average
COLUMBIA					
Kootenai	Kootenai	5,748.2	3,112.0	3,619.0	3,157.0
Flathead	Hungry Horse	3,451.0	2,264.0	2,611.0	2,299.0
	Flathead Lake	1,791.0	1,017.0	1,096.0	1,325.0
	Camas (4)	45.2	17.5	28.1	16.8
	Mission Valley (8)	100.3	30.1	52.5	35.3
Clark Fork	Georgetown Lake	31.0	27.0	27.7	28.7
	Lower Willow Creek	4.9	0.2	3.1	1.2
	Nevada Creek	12.6	4.3	3.4	3.8
	Noxon Rapids	334.6	318.0	318.4	314.1
Bitterroot	Painted Rocks	31.7	---	---	17.5
	Como	34.9	7.1	18.5	8.5
MISSOURI					
Beaverhead	Lima	84.0	23.7	18.4	39.5
	Clark Canyon	257.2	149.9	183.5	145.4
Ruby	Ruby	38.8	19.2	26.5	21.4
Madison	Hebgen Lake	377.5	311.3	261.7	258.9
	Ennis Lake	41.0	32.6	31.0	33.4
Gallatin	Middle Creek	8.0	3.8	4.0	3.1
Missouri	Canyon Ferry	2,043.0	1,548.0	1,785.0	1,629.0
	Hauser & Helena	61.9	63.0	63.0	62.2
	Helena Valley	9.2	3.9	4.8	6.4
	Lake Helena	10.4	10.9	10.9	10.6
	Holter Lake	81.9	38.5	77.2	78.5
	Fort Peck Lake	18,910.0	16,220.0	16,250.0	16,310.0
Smith	Smith River	10.6	8.3	8.2	6.4
	Newlan Creek	12.4	9.8	8.8	9.4
Musselshell	Bair	7.0	0.4	2.2	4.0
	Martinsdale	23.1	5.4	13.0	10.7
	Deadman's Basin	72.2	38.4	51.0	43.2
Sun	Gibson	99.1	42.5	43.0	41.2
	Willow Creek	32.2	12.1	23.9	21.2
	Pishkun	32.0	18.8	19.8	17.2
Marias	Lower Two Medicine	11.9	---	---	6.5
	Four Horns	19.2	---	---	12.5
	Swift	30.0	6.4	9.8	13.0
	Lake Frances	111.9	23.4	47.1	70.7
Milk	Elwell (Tiber)	1,347.0	682.7	691.8	510.2
	Beaver Creek	3.5	0.9	3.1	1.6
	Fresno	127.2	11.8	27.0	61.3
	Nelson	66.8	27.0	42.0	40.0
HUDSON BAY					
St. Mary's	Lake Sherburne	64.3	33.9	26.5	18.3
YELLOWSTONE					
Stillwater	Mystic Lake	21.0	6.0	10.3	12.4
Clark's Fork	Cooney	27.4	17.8	16.1	12.6
Tongue	Tongue River	68.0	18.5	13.0	26.8
Bighorn	Bighorn Lake	1,356.0	954.6	913.6	667.7



VALLEY PRECIPITATION

Source: MWS Great Falls, MT

DECEMBER 1984



INDEX TO MONTANA SNOW COURSES AND DATA SITES

Snow Course	Elev.	Sec.	Twp.	Range	Sensors in Addition to Snow Course ¹	Drainage Basin
Abundance Lake	8800	7	35	11W		Big Hole
Ambrose	5480	28	9N	18W		Bitterroot
Arch Falls	7350	3	5S	6E		Gallatin
Ashley Divide	4920	10	28N	23W	P	Flathead
Ashley Lake	4000	8	28N	23W	P	Flathead
*Badger Pass	6900	4	27N	11W	A,P,S,T	Teton-Marlas-Sun
Bald Eagle Peak	5700	6	27N	11W		Kootenai
Bald Ridge	7500	11	4N	10E		Upper Yellowstone
Banfield Mountain	5600	4	32N	30W	S,P,T,W	Kootenai
Barre Creek	5500	36	26N	31W		Kootenai
Barre Midway	4600	31	26N	30W		Kootenai
Barre Trail	3800	5	25N	30W		Kootenai
*Barker Lakes	8250	17	4N	12W	S,P,T	Clark Fork
*Basin Creek	7180	31	1N	7W	S,P,T	Clark Fork
Bassoo Peak	5150	11	24N	25W		Flathead
*Beagle Springs	8850	6	16S	11W	S,P,T	Beaverhead
Bear Basin	8150	9	6S	3E		Gallatin
Bear Paw Ski Area	5200	21	28N	16E	P	Milk
Beaver Creek	7850	21	10S	3E	S,P	Madison
Beaver Lake	5900	31	28N	11W		Flathead
Berry Meadow	7000	8	5W	5W		Jefferson
Big Creek	6750	7	22N	12W		Flathead
Big Sky	7700	30	6S	3E	P	Iceberg Lake #3
Big Sky Meadow	6350	35	6S	3E		Gallatin
Big Snowy	7150	25	12N	17E		Judith
*Black Bear	7950	27	15S	5E	S,P,T	Madison
Black Mountain	7750	34	7N	8W		Clark Fork
*Black Pine	7100	26	8N	15W	S,P,T	Clark Fork
*Bloody Dick	7600	12	8S	16W	S,P,T	Beaverhead
Blue Lake	5900	25	28N	12W	A	Teton-Marlas-Sun
Bots Sots	7750	35	7S	18E		Upper Yellowstone
*Boulder Mountain	7950	1	9N	3E	S,P,T	Missouri Main Stem
*Box Canyon	6670	28	6S	12E	S,P,T	Upper Yellowstone
Boxelder Creek	5100	24	28N	16E		Milk
*Bozeman Experiment Farm	4775	7	2S	5E	S,P,T,NSC	Gallatin
Branham Lakes	8850	5	4S	3W		Ruby
Bridger Bowl	7250	25	1N	6E	S,P	Gallatin
Bristow Creek	3900	2	32N	30W		Kootenai
Brush Creek Timber	5000	12	30N	26W		Kootenai
Bull Mountain	6600	18	2N	9W		Big Hole
Cabin Creek	5200	34	23N	10W		Teton-Marlas-Sun
Call Road	8050	21	8S	2W		Madison
*Calvert Creek	6430	34	2N	14W	S,P,T	Flathead
Camp Misery	6400	30	28N	18W		Upper Yellowstone
Camp Senia	7890	2	8S	18E		Upper Yellowstone
*Carrot Basin	9000	18	10S	4F	S,P,T	Gallatin
Carter Creek	7400	22	8S	7W		Beaverhead
*Cash Creek	7800	8	9S	3E	S,P,T	Gallatin
Cedar Grove	3760	35	28N	31W		Kootenai
Chessman Reservoir	6200	2	8N	5W		Missouri Main Stem
Chick Creek	4060	14	33N	23W		Flathead
Christensen Ranch	6000	34	7S	7W	P,NSC	Beaverhead
*Clover Meadow	8600	28	9S	2W	S,P,T	Madison Plateau
*Cole Creek	7850	26	7S	19E	S,P,T	Upper Yellowstone
Colley Creek	6300	34	6S	10E	P	Marlas Pass
*Combination	5600	7	8N	14W	S,P,T	Clark Fork
Cooke Station	8150	19	9S	15E		Upper Yellowstone
*Copper Bottom	5200	15	15N	8W	S,P,T	Clark Fork
*Copper Camp	6950	3	15N	9W	S,P,T	Clark Fork
Copper Creek	5700	1	15N	9W		Clark Fork
Copper Lake Creek	6100	3	15N	9W		Clark Fork
Copper Mountain	7700	13	3N	7W		Jefferson
Cottonwood Creek	6400	14	7N	8W		Clark Fork
Coyote Hill	4200	12	18N	16W		Clark Fork
Crevice Mountain	8400	22	9S	9E		Upper Yellowstone
*Crystal Lake	6050	19	12N	18E	S,P,T	Judith
Dad Creek Lake	8400	24	12S	13W		Beaverhead
Daisy Peak	7600	34	11N	11E	P	Musselshell
*Oaty Creek	5780	16	5N	18W	S,P,T	Bitterroot
*Oarkhorse Lake	8600	4	8S	16W	S,P,T	Big Hole
Oasis Creek	5400	20	37N	33W		Kootenai
*Deadman Creek	6450	23	12N	8E	S,P,T	Missouri Main Stem
Desert Mountain	5600	30	31N	16W		Flathead
Oevil's Slide	8100	14	5S	6E		Gallatin
Discovery Basin	7050	21	6N	13W		Clark Fork
*Divide	7800	14	12S	4W	S,P,T	Ruby
Dix Hill	6400	24	11N	8W	P	Clark Fork
*Duppyer Creek	5750	27	27N	9W	S,P,T,W	Missouri Main Stem
Eagle Creek	7000	2	5N	10E		Musselshell
East Boulder S	9250	14	7S	12E	A	Gallatin
East Fork R. S.	5400	16	2N	17W		Bitterroot
El Dorado Mine	7800	23	8N	12W		Clark Fork
Elk Horn Springs	7800	21	4S	12W		Beaverhead
Elk Peak	8000	10	8N	8F		Missouri Main Stem
*Emery Creek	4350	20	31N	16W	S,P,T	Flathead
Fatty Creek	5500	8	22N	18W		Flathead
Fish Creek	8000	5	1S	2W		Jefferson
*Fisher Creek	9100	11	9S	14E	S,P,T	Upper Yellowstone
*Five-Built	5700	25	20N	10W		Teton-Marlas-Sun
*FlatTop Mountain	6300	12	35N	18W	S,P,T	Flathead
Fleecer Ridge	7500	3	1N	10W		Big Hole
Foolhen	8280	11	1S	13W		Big Hole
Forest Lake	6400	26	6N	10F		Musselshell
Four Mile	6900	5	4S	2W	P	Madison
Fourth of July	3450	19	34N	33W		Kootenai
Fred Burr Pass	8000	12	6N	13W		Clark Fork
Freight Creek	6000	13	25N	10W		Teton-Marlas-Sun
Friday Hill	4620	19	34N	33W		Kootenai
*Frohner Meadows	6480	23	8N	5W	S,P,T	Missouri Main Stem
Gorner Creek	4250	18	37N	32W	S,P,T,W	Kootenai

Snow Course	Elev.	Sec.	Twp.	Range	Sensors in Addition to Snow Course ¹	Drainage Basin
Gibbons Pass	7100	3	2S	19W		Bitterroot
Goat Mountain	7000	20	22N	10W		Teton-Marlas-Sun
Gallatin Creek Lake	7200	14	8N	12W		Clark Fork
Gold Stone	8100	11	8S	16W		Beaverhead
Grasshopper	7000	19	9N	8E		Missouri Main Stem
*Grave Creek	4300	1	35N	25W	S,P,T	Kootenai
Griffin Creek Divide	5150	11	28N	25W		Flathead
Gunsight Lake	6300	30	26N	13W		Flathead
*Hand Creek	5035	6	29N	25W	S,P,T	Flathead
Hawkins Lake	6450	18	37N	33W	S,P,T,W	Kootenai
Haymaker	8050	16	11N	12E		Musselshell
Heart Lake Trail	4800	11	14N	27W		Clark Fork
Heggen Dam	6550	22	11S	3E		Madison
Hell Roaring Divide	5770	35	32N	22W		Flathead
Herrig Junction	4850	19	34N	23W	P	Flathead
Highwood Divide	5650	16	19N	9E	P,NSC	Missouri Main Stem
Highwood Station	4600	20	20N	9E	P,NSC	Missouri Main Stem
Holbrook	4530	18	21N	13W	A	Flathead
Hood Meadow	6600	22	4S	6E		Gallatin
*Hoodoo Basin	6050	17	14N	27W	S,P,T	Clark Fork
Hoodoo Creek	5900	16	14N	27W		Clark Fork
Iceberg Lake #3	5800	1	35N	17W		St. Mary
Independence	7850	21	7S	12E		Upper Yellowstone
Intergaard	6450	6	5W	13W		Clark Fork
Jack Creek	6650	1	6S	1E		Madison
Jahnke Lake Trail	7200	24	7S	16W		Big Hole
Johnson Park	6450	16	10N	11E	P	Musselshell
Josephine Lower #9	4900	22	35N	16W		St. Mary
Keeler Creek	3300	25	10N	35W		Kootenai
King's Hill	7500	34	13N	8E		Missouri Main Stem
Kishenehn	3890	14	37N	22W		Flathead
Kiwatis Camp	3720	9	29N	16E	P,T,W	Milk
*Kraft Creek	4750	4	19N	17W	S,P,T	Flathead
Lake Creek	6100	27	11S	1E		Madison
Lakeview Canyon	6930	26	14S	2W		Beaverhead
*Lakeview Ridge	7400	27	14S	2W	S,P,T	Beaverhead
Lemhi Pass	7480	9	10S	15W		Beaverhead
*Lemhi Ridge	8100	4	10S	15W	S,P,T	Beaverhead
*Lick Creek	6860	10	4S	6E	S,P,T	Gallatin
Little Park	7400	22	6S	3E		Gallatin
Logan Creek	4300	34	30N	24W		Flathead
Lone Mountain	8880	25	6S	2E		Gallatin
Lost Horse	5940	5	4N	23W		Bitterroot
Lost Soul	4800	31	33N	29W		Kootenai
*Lower Twin	7900	12	4S	3W	S,P,T	Madison
Lower Willow Creek	4740	3	9N	14W	P,NSC	Clark Fork
*Lubrecht Flume	4680	13	13N	14W	S,P,T	Clark Fork
Lubrecht Forest #3	5450	19	13N	14W		Clark Fork
Lubrecht Forest #4	4650	23	13N	15W		Clark Fork
Lubrecht Forest #6	4040	11	13N	15W		Clark Fork
Lubrecht Hydroplot	4200	22	13N	14W		Clark Fork
Madison Plateau	7750	28	14S	5F	S,P	Madison
*Many Glacier	4900	10	35N	17W	S,P,T	St. Mary
Marlas Pass	5250	31	30N	13W		Teton-Marlas-Sun
Maynard Creek	6210	19	7N	7E	S,P	Gallatin
Middle Hill Creek	7850	17	4S	3W		Ruby
Mill Creek	7500	31	6S	11E	P	Upper Yellowstone
Mineral Creek	4000	34	35N	17W		Flathead
*Monument Peak	8850	16	7S	12E	S,P,T	Upper Yellowstone
Moulton Reservoir	6850	17	4N	7W		Clark Fork
Mount Allen #7	5700	27	35N	16W		St. Mary
*Mount Lockhart	6400	18	25N	9W	S,P,T	Teton-Marlas-Sun
Mudd Lake	7650	24	2N	15W		Big Hole
*Mule Creek	8300	9	5S	11W	S,P,T	Big Hole
*Nevada Creek	6480	6	12N	7W	S,P,T	Clark Fork
New World	6900	24	3S	6E		Gallatin
Newton Mountain	5600	23	34N	34W		Kootenai
*Nez Perce Camp	5650	19	1S	23W	S,P,T	Bitterroot
Nez Perce Creek	6500	16	4N	6W		Jefferson
Nez Perce Pass	6570	25	1S	24W		Bitterroot
*Nolsy Basin	6040	25	26N	19W	S,P,T	Flathead
*North Fork Elk Creek	6250	20	13N	13W	S,P,T	Clark Fork
North Fork Jocko	6330	3	17N	17W		Flathead
North Meadow	7500	24	3S	3W		Madison
*Northeast Entrance	7350	33	9S	14E	S,P,T	Upper Yellowstone
Notch	8500	18	11S	4W		Ruby
Ophir Park	7150	13	11N	8W		Clark Fork
Pallade Creek	8250	3	2N	15W	S,P	Big Hole
Peterson Meadows	7200	2	4N	14W		Clark Fork
Picket Pin D	9450	36	4S	13F	A	Upper Yellowstone
Picket Pin Lower	6200	1	5S	14F	P	Upper Yellowstone
Picket Pin Middle	7250	3	5S	14F		Upper Yellowstone
Picket Pin Upper	8100	32	4S	14F	P	Upper Yellowstone
*Pickfoot Creek	6650	31	10N	4F	S,P,T	Missouri Main Stem
Plegan Pass #6	5500	27	35N	16W		St. Mary
*Pike Creek	5930	5	29N	13W	S,P,T	Teton-Marlas-Sun
Pipestone Pass	7200	10	1N	7W		Pipestone
*Placer Basin	6830	11	5S	13E	A,S,P,T	Upper Yellowstone
PMC Headquarters	3656	34	6S	23E	P,W,T,NSC	Upper Yellowstone
Poolman Creek	5100	5	17N	31W	S,P,T,W	Kootenai
*Porcupine	6500	10	4N	10F	S,P,T	Upper Yellowstone
Potomageton Park	7150	33	10S	3E		Madison
Potomageton #B	5800	36	36N	17W		St. Mary
Red Mountain	6000	4	36N	29W		Kootenai
Red Top	5260	14	34N	34W		Kootenai
Rock Creek	5600	7	12N	18E	P	Judith
Rock Creek Meadows	8160	34	7S	5E	P	Gallatin
*Rocker Peak	8000	17	7N	5W	S,P,T	Jefferson
Rocky Boy	4700	22	28N	16E	S,P	Milk
Sacajawea	6550	36	2N	6E		Upper Yellowstone

Snow Course	Elev.	Sec.	Twp.	Range	Sensors in Addition to Snow Course ¹	Drainage Basin
*Saddle Mountain	7940	5	2S	15W	S,P,T	Bitterroot
Sentinel Creek	8300	17	10S	3E		Madison
*Shower Falls	8100	14	5S	6E	S,P,I	Gallatin
*Silver Run	6630	11	8S	19E	S,P,T	Upper Yellowstone
*Skalkaho Summit	7250	30	6N	17W	S,P,T	Clark Fork
*Skylark Trail	6200	29	15N	17W	S,P,T	Flathead
Slag-A-Melt Lake	8750	29	5S	17W		Big Hole
Slide Rock Mountain	7100	35	10N	16W		Clark Fork
Smuggler Mine	6950	24	4S	4W		Ruby
*South Fork Shields	8100	13	4N	10E	S,P,T	Upper Yellowstone
Spotted Bear Mountain	7000	23	25N	15W	A	Flathead
*Spur Park	8100	20	12N	9E	S,P,T	Judith
*Stant Peak	6030	5	36N	25W	S,P,T	Kootenai
Star Lake F	1950	31	8S	15E	A	Upper Yellowstone
Stempe Pass	6600	16	13N	7W		Missouri Main Stem
Storm Lake	7780	19	4N	13W		Clark Fork
Stryker Basin	6180	26	34N	24W	P	Flathead
Stuart Hill	6500	19	5N	13W		Clark Fork
Stuart Mountain	7400	6	14N	18W		Clark Fork
Sucker Creek	3950	11	29N	16E	P	Milk
Taylor Peaks	8500	26	9S	2E	S,P	Gallatin
Taylor Road	4080	19	29N	16E	P	Milk
Ten Mile Lower	6600	12	8N	6W		Missouri Main Stem
Ten Mile Middle	6800	13	8N	6W		Missouri Main Stem
Ten Mile Upper	8000	19	8N	5W		Missouri Main Stem
*Tepee Creek	8000	15	12S	1W	S,P,T	Madison
Timberline Creek	8850	10	8S	18E		Upper Yellowstone
Trail Creek	7090	15	10S	15W		Beaverhead
Trinkus Lake	6100	9	25S	17W		Flathead
Truman Creek	4050	10	26N	22W		Flathead
TV Mountain	6800	33	15N	19W		Clark Fork
*Twelvemile Creek	5600	34	5N	23W	S,P,T	Bitterroot
Twenty-One Mile	7150	1	17S	5E		Gallatin
Twin Creeks	3580	25	26N	16W	A	Flathead
*Twin Lakes	6510	32	5N	23W	S,P,T	Bitterroot
Upper Holland Lake	6200	28	20N	15W		Flathead
*Waldron	5600	17	25N	9W	S,P,T	Teton-Marlas-Sun
*Warm Springs	7800	13	6N	13W	S,P,T	Clark Fork
Weasel Divide	5450	20	37N	24W		Kootenai
West Rosebud	7500	9	7S	16E		Upper Yellowstone
West Yellowstone	6700	34	13S	5E	S	Madison
*Whiskey Creek	6800	19	14S	5E	S,P,I	Madison
*White Mill	8700	18	9S	15E	S,P,I	Upper Yellowstone
White Pine Ridge	8850	18	14S	9W		Beaverhead
Willow Creek	6500	31	7S	20E		Upper Yellowstone
*Wood Creek	5950	35	20N	10W	S,P,T	Teton-Marlas-Sun
Wrong Creek	5700	32	25N	10W		Teton-Marlas-Sun
Wrong Ridge	6800	17	25N	10W		Teton-Marlas-Sun
104M0						
Above Burke	4100	11	48N	5E		Spokane
*Bear Mountain	5400	9	57N	3F	S,P,T	Pend Oreille
Big Springs	6400	4	13N	44E		SNAKE
Blue Tedge Mine	6700	27	13N	38E		SNAKE
Camp Creek	6800	21	13N	36F		SNAKE
*Crab Creek	6200	6	12N	39E	S,P,I	SNAKE
*Humboldt Gulch	4250	2	48N	5E	S,P,T	Coeur d'Alene
Island Park	6290	28	13N	43E		SNAKE
Kilgore	6200	6	12N	39E		SNAKE
Kitt Carson	5020	4	27N	16E		Clearwater
*Lolo Pass	5240	16	38N	15E	S,P,T	Clearwater
*Lookout	5120	4	47N	6E	S,P,T	Spokane
*Moose Creek	6200	14	27N	21E	S,P,T	Salmon
*Savage Pass	6170	18	36N	15E	S,P,I	Clearwater
Sawtell Mountain	8720	7	14N	43E		SNAKE
*Sunset	5600	33	49N	5E	A,S,P,T	Spokane
Targhee Pass	7000	32	16N	44F		SNAKE
Valley View	6740	7	15N	44E		SNAKE
*White Elephant	7700	17	14N	43E	S,P,T	SNAKE
WYOMING						
*Bald Mountain	9380	29	56N	91W	S,P,T	Big Horn
*Beartooth Lake	9275	--	---	---	S,P,T	Upper Yellowstone
*Burgess R.S.	7880	36	56W	89W	S,P,I	Tongue
*Canyon	7940	--	---	---	S,P,I	Upper Yellowstone
East Entrance	6950	17	52N	109W		Big Horn
*Evening Star	9200	20	54N	107W	S,P,T	Upper Yellowstone
Lake Camp	7780	--	---	---		Upper Yellowstone
Lupine Creek	7380	--	---	---		Upper Yellowstone
Norris Basin	7500	--	---	---		Madison
Old Faithful	7400	27	52N	116W		Madison
*Parker's Peak	9400	19	55N	108W	S,P,T	Upper Yellowstone
*Sylvan Lake	8820	--	---	---	S,P,T	Upper Yellowstone
Sylvan Pass	7100	--	---	---		Upper Yellowstone
Thumb Divide	7980	--	---	---		Upper Yellowstone
Two Ocean Plateau	9160	6	48N	111W	S,P,T	SNAKE
*Wolverine	7650	29	55N	106W	S,P,T	Upper Yellowstone